



# JOHNSON SCREENS® Vertical Sieve Screen MID/V

## BENEFITS

- Fine screening, washing and dewatering in one unit
- Simple retrofitting
- Complete hygienic stainless steel encapsulation
- No bearing in contact with the effluent
- Quick and easy installation
- Eliminates pumps clogging

## TASK

Fine screening of waste water in sumps or pumping stations by perforated screen panel, including subsequent conveyance, washing, dewatering, compacting and discharge of screenings.

## SOLUTION

The JOHNSON SCREENS® Vertical Sieve Screen MID/V is designed to be installed into sumps, manhole chambers, underground chambers and pumping stations. JOHNSON SCREENS® Vertical Sieve Screens MID/V provide the solution to facilitate lifting, washing, dewatering, compaction of solids and improving the performance and reliability of drainage systems.

## FUNCTION

Vertical sieve screens are combined machines consisting of screen, spiral and a press unit. During operation, liquids flow into the screen basket causing an upstream level of the liquids. At a pre-set water level the drive of the screen is automatically activated to convey solids up to the pressing zone. Cleaning brushes mounted on the spiral will clean the screen basket and the level of the liquids is lowering.

## DESIGN SIZES

- Nominal screen diameter: 200–700 mm
- Channel depth: 500–11,000 mm
- Discharge height: customised
- Perforation: 2–10 mm
- Installation angle: 90°

## MATERIALS

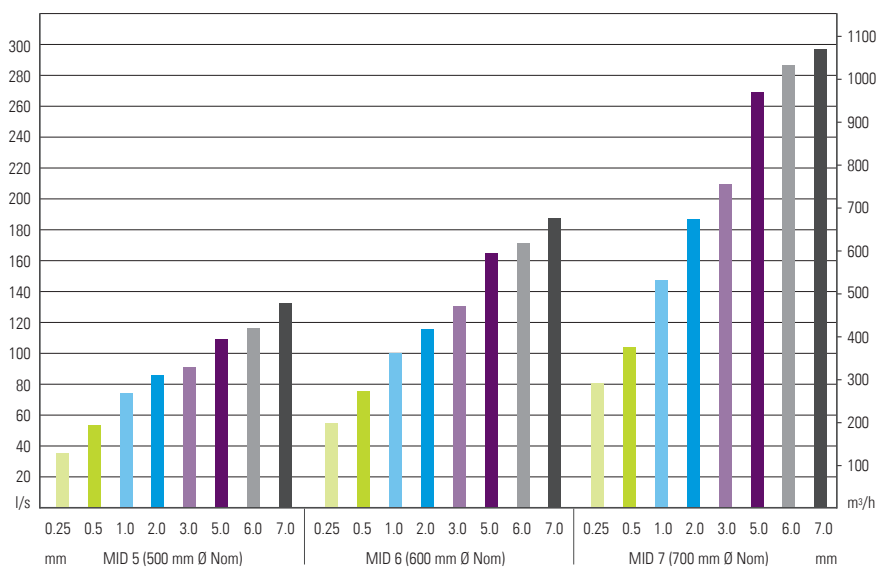
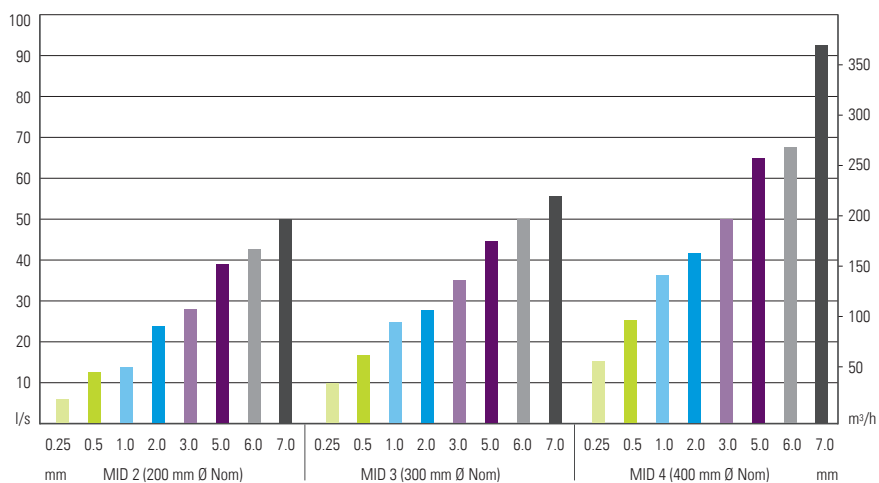
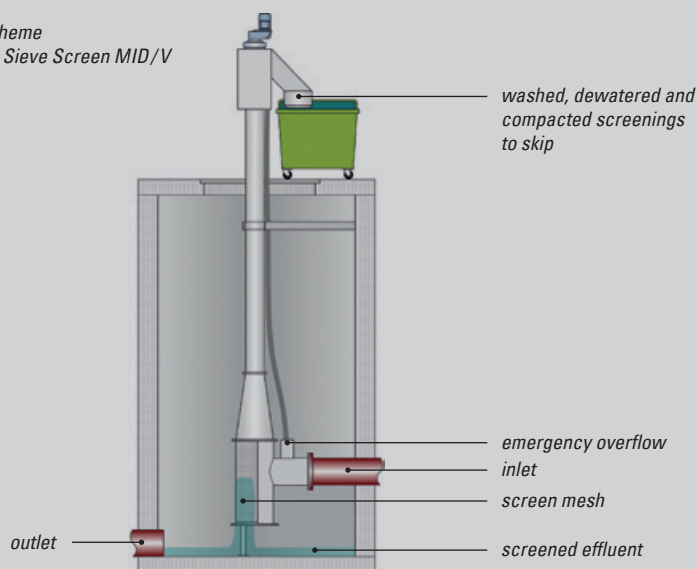
Casing, supports, screen basket, wearing liners: stainless steel AISI 304 L or AISI 316 L  
Spirals: special Micro Alloy Steel St52 (carbon steel in accordance with JOHNSON SCREENS® standard), alternatively AISI 304 L or AISI 316 L

## OPTIONS

- Screen panel as wedge-wire sieve (0.25–2 mm)
- Spiral brush made of stainless steel AISI 304
- Hygienic packaging of screenings type longopac 70 mt
- Manual or automatic flushing of transport zone
- Anti-freeze heating for transport and compaction zone
- Control panel with level indicator



Flow scheme  
Vertical Sieve Screen MID/V



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APPLICATIONS & FIELDS OF OPERATION

The JOHNSON SCREENS® Vertical Sieve Screen MID/V is suitable for fine screening and can be employed in municipal or industrial WWTP to prevent pump clogging.

UNIQUE FEATURES

All the main parts of the screen are bolted to ensure a fast and easy maintenance without removing the screen from the sump. Subdivided cleaning brushes guarantee an easy and fast exchange. Machine supplied with safety microswitch to prevent possible accidents during operation.